

### **Listing of Claims:**

1. (Currently Amended) An authentication method for identifying a subscriber of a first network comprising a general packet radio services network in a second network ~~being comprising~~ an Internet protocol (~~IP~~) network, comprising ~~the steps of:~~

- a) allocating an ~~IP~~ Internet protocol address of said second network to said subscriber;
  - b) generating information about a mapping between ~~the subscriber's~~ an IP address of the subscriber in said second network and a subscriber identity; and
  - c) transmitting the mapping to said second network,
- wherein said subscriber is identified in a value added service ~~VAS~~ platform based on said mapping information.

2. (Currently Amended) The authentication method according to claim 1, wherein said mapping information is transmitted to said second network, when said mapping between said ~~IP~~ Internet protocol address in said second network and the subscriber identity has changed.

3. (Currently Amended) The authentication method according to claim 1, wherein said subscriber identity is at least one of an international mobile subscriber identity ~~IMSI~~ and ~~an~~ a mobile station integrated services digital network number ~~MSISDN~~ of the subscriber.

4. (Previously Presented) The authentication method according to claim 1, wherein said mapping information is transmitted in an access request message.

5. (Currently Amended) The authentication method according to claim 4, wherein said request access message is a remote authentication dial in user service ~~RADIUS~~ access request message.

6. (Previously Presented) The authentication method according to claim 1, wherein said authentication server functionality is included in the value added service ~~VAS~~ platform.

7. (Previously Presented) The authentication method according to claim 1, wherein said authentication server functionality is provided by a dedicated authentication server.

8. (Currently Amended) The authentication method according to claim 1, wherein said mapping information is generated by an authentication client functionality in a ~~GGSN~~ general packet radio services support node.

9. (Previously Presented) The authentication method according to claim 1, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

10. (Currently Amended) An authentication system for identifying a subscriber of a first network comprising a general packet radio services network in a second network ~~being comprising~~ an Internet ~~protocol~~ Protocol (IP) network, comprising:

- a) a gateway device comprising allocation means for allocating an ~~IP~~ Internet protocol address of said second network to said subscriber, and authentication client means for generating an information about a mapping between said ~~IP~~ Internet protocol address of said second network and a subscriber identity, and for transmitting said mapping information to said second network; and
- b) an authentication server provided in said second network and ~~adapted~~ configured to log and maintain said mapping information
- c) wherein said authentication server is a server for a value added service ~~VAS~~ platform provided in said second network, wherein said value added service ~~VAS~~ platform is ~~adapted~~ configured to identify said subscriber based on said mapping information.

11. (Currently Amended) The authentication system according to claim 10, wherein said gateway device is a ~~GGSN~~ general packet radio services support node.

12. (Currently Amended) The authentication system according to claim 10, wherein said authentication client means is a remote authentication dial in user service ~~RADIUS~~ client.

13. (Currently Amended) The authentication system according to claim 10, wherein said server is a remote authentication dial in user service RADIUS server.

14. (Currently Amended) The authentication system according to claim 10, wherein said subscriber identity is an international mobile subscriber identity IMSI or a mobile station integrated service digital number MSISDN.

15. (Previously Presented) The authentication system according to claim 10, wherein said authentication client means is arranged to transmit said mapping information in an access request message to said authentication server.

16. (Currently Amended) The gateway device for connecting a first network comprising a general packet radio service network to a second network being comprising an Internet protocol Protocol (IP) network, comprising:

- a) an allocation unit configured to allocate means for allocating an IP Internet protocol address of said second network to a subscriber of said first network; and
- b) an authentication client unit configured to generate means for generating an information about a mapping between said IP Internet protocol address of said second network and a subscriber identity, and network to transmit said mapping information to said Internet protocol network[.,,];

wherein said authentication client unit means is a remote authentication dial in user service RADIUS client.

17. (Currently Amended) The gateway device according to claim 16, wherein said authentication unit means is configured arranged to transmit said mapping information in an access request message.

18. (Currently Amended) The authentication method according to claim 2, wherein said subscriber identity is at least one of an international mobile subscriber identity IMSI and an a mobile station integrated services digital network number MSISDN of the subscriber.

19. (Previously Presented) The authentication method according to claim 2, wherein said mapping information is transmitted in an access request message.

20. (Previously Presented) The authentication method according to claim 3, wherein said mapping information is transmitted in an access request message.

21. (Currently Amended) The authentication method according to claim 2, wherein said mapping information is generated by an authentication client functionality in a gateway general packet radio services support node GGSN.

22. (Currently Amended) The authentication method according to claim 3, wherein said mapping information is generated by an authentication client functionality in a gateway general packet radio services support node GGSN.

23. (Currently Amended) The authentication method according to claim 4, wherein said mapping ~~in~~ information is generated by an authentication client functionality in a gateway general packet radio services support node GGSN.

24. (Currently Amended) The authentication method according to claim 5, wherein said mapping information is generated ~~[[b]]~~ by an authentication client functionality in a gateway general packet radio services support node GGSN.

25. (Currently Amended) The authentication method according to claim 6, wherein said mapping information is generated by an authentication client functionality in a gateway general packet radio services support node GGSN.

26. (Currently Amended) The authentication method according to claim 7, wherein said mapping information is generated by an authentication client functionality in a gateway general packet radio services support node GGSN.

27. (Previously Presented) The authentication method according to claim 2, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

28. (Previously presented) The authentication method according to claim 3, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

29. (Previously Presented) The authentication method according to claim 4, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

30. (Currently Amended) The authentication method according to claim 5, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

31. (Currently Amended) The authentication method according to claim 6, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

32. (Currently Amended) The authentication method according to claim 7, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

33. (Currently Amended) The authentication method according to claim 8, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals.

34. (Currently Amended) The authentication system according to claim 11, wherein said authentication client means is a remote authentication dial in user service RADIUS client.

35. (Currently Amended) The authentication system according to claim 11, wherein said server is a remote authentication dial in user service RADIUS server.

36. (Currently Amended) The authentication system according to claim 12, wherein said server is a remote authentication dial in user service RADIUS server.

37. (Currently Amended) The authentication system according to claim 11, wherein said subscriber identity is an international mobile subscriber identity IMSI or ~~an~~ a mobile station integrated services digital network number MSISDN.

38. (Currently Amended) The authentication system according to claim 12, wherein said subscriber identity is an international mobile subscriber identity IMSI or ~~an~~ a mobile station integrated services digital network number MSISDN.

39. (Currently Amended) The authentication system according to claim 13, wherein said subscriber identity is an international mobile subscriber identity IMSI or ~~an~~ a mobile station integrated services digital network number MSISDN.

40. (Previously Presented) The authentication system according to claim 11, wherein said authentication client means is arranged to transmit said mapping information in an access request message to said authentication server.

41. (Previously Presented) The authentication system according to claim 12, wherein said authentication client means is arranged to transmit said mapping information in an access request message to said authentication server.

42. (Previously Presented) The authentication system according to claim 13, wherein said authentication client means is arranged to transmit said mapping information in an access request message to said authentication server.

43. (Previously Presented) The authentication system according to claim 14, wherein said authentication client means is arranged to transmit said mapping information in an access request message to said authentication server.

44. (New) A device configured to connect a first network comprising a general packet radio services network to a second network comprising an Internet protocol network, comprising:

means for allocating an Internet protocol address of said second network to a subscriber of said first network; and

means for generating information about a mapping between said Internet protocol address of said second network and a subscriber identity, and for transmitting said mapping information to said Internet protocol network;

wherein said authentication client means is a remote authentication dial in user service client.